

(FILE 'HOME' ENTERED AT 15:47:34 ON 06 JUN 2003)

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 15:47:41 ON 06 JUN 2003

L1	12 S PLATELET FACTOR 4 AND TSP-1 .
L2	0 S ABDELOUAHED.AU
L3	0 S LAWLER.AU
L4	0 S JORDAN.AU
L5	9 S SCHROEDER/AU
L6	0 S ABDELOUAHED/AU
L7	0 S LAWLER/AU

=>

(FILE 'HOME' ENTERED AT 12:13:51 ON 06 JUN 2003)

FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 12:14:02 ON 06 JUN 2003

L1	2072 S THROMBOSPONDIN-1
L2	188 S L1 AND HEPARIN
L3	6319 S L2 AND PF4 OR PLATELET FACTOR 4
L4	6319 S L3 AND PLATELET FACTOR 4
L5	4 S L2 AND L4
L6	4 S L2 AND L4
L7	1488 S ISOLATED COMPLEX
L8	0 S L7 AND PLATELET FACTOR 4
L9	12 S L7 AND HEPARIN
L10	944 DUP REMOVE L7 (544 DUPLICATES REMOVED)
L11	2163 S HEPARIN AND PLATELET FACTOR
L12	0 S L11 AND ISOLATED COMPLEX
L13	555 S L11 AND COMPLEX
L14	32 S L13 AND CHROMATOGRAPHY
L15	0 S L14 AND THROMBOSPONDIN-1
L16	0 S L14 AND TERNARY
L17	0 S L14 AND CHIMERIC PROTEINS
L18	0 S L14 AND VARIANT?
L19	19 S L14 AND GEL

L Number	Hits	Search Text	DB	Time stamp
1	20	TSP-1 and heparin	USPAT	2003/06/06 14:44
2	8	(TSP-1 and heparin) and Pf4	USPAT	2003/06/06 14:57
3	9	Pf4 and TSP-1	USPAT	2003/06/06 14:58

L Number	Hits	Search Text	DB	Time stamp
1	665	(435/13).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/05 11:16
2	1	((435/13).CCLS.) and thrombospondin-1	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/05 11:19
3	1	((435/13).CCLS.) and thrombospondin-1) and heparin	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/05 11:19
4	1	((435/13).CCLS.) and thrombospondin-1) and platelet	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/05 11:20

L Number	Hits	Search Text	DB	Time stamp
1	12	Pf4 and thrombospondin-1	USPAT	2003/06/06 10:27

L Number	Hits	Search Text	DB	Time stamp
1	404	(536/21).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/11 13:38
2	322	((536/21).CCLS.) and heparin	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/11 13:38
3	1	((536/21).CCLS.) and heparin) and TSP-1	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/11 13:40
4	6	((536/21).CCLS.) and heparin) and thrombospondin	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/11 13:50
5	512	(514/56).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/11 13:50
6	157	((514/56).CCLS.) and ((536/21).CCLS.) and heparin)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/11 13:50
7	0	((514/56).CCLS.) and ((536/21).CCLS.) and heparin)) and ((536/21).CCLS.) and heparin) and TSP-1)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/11 13:51
8	1	((514/56).CCLS.) and ((536/21).CCLS.) and heparin)) and ((536/21).CCLS.) and heparin) and thrombospondin)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/11 13:56
9	2054	(435/7.21).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/11 13:57
10	255	((435/7.21).CCLS.) and heparin	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/11 13:57
11	9	((435/7.21).CCLS.) and heparin) and PF4	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/11 13:57
12	2	((435/7.21).CCLS.) and heparin) and PF4) and TSP-1	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/11 14:04
13	3582	(436/518).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/11 14:04
14	0	("13 and heparin").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/11 14:05
15	227	((436/518).CCLS.) and heparin	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/11 14:05
16	0	((436/518).CCLS.) and heparin) and TSP-1	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/11 14:05
17	0	((436/518).CCLS.) and heparin) and TSP	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/11 14:05

18	3	((436/518).CCLS.) and heparin) and PF4	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/11 14:17
19	2	((436/518).CCLS.) and heparin) and PF4 and thrombospondin	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/11 14:25
20	6	thrombospondin and ((536/21).CCLS.)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/11 14:26
21	4	(thrombospondin and ((536/21).CCLS.)) and PF4	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/11 14:26
22	4	((thrombospondin and ((536/21).CCLS.)) and PF4) and heparin	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/11 14:26

Day : Friday  
Date: 6/6/2003  
Time: 16:04:36

 **PALM INTRANET**

## Biotech Query for 10/084832

Title: **DIAGNOSTIC ASSAY FOR TYPE 2 HEPARIN-INDUCED THROMBOCYTOPENIA**

Inventor: **ABDELOUAHED, MUSTAPHA**

Location: **16L3/TC 1600 LEGAL INSTRUMENTS EXAMINER TEAM 3, CM1-8C10**

Location Date: **05/12/2003**

Group Art Unit: **1641**

Status: **71/RESPONSE TO NON-FINAL OFFICE ACTION ENTERED AND FORWARDED TO EXAMINER**

Barcode: **10084832**

Num	Date	Code	Contents Description
5	07/24/2002	CRFE	CRF IS GOOD TECHNICALLY / ENTERED INTO DATABASE

Search for Biotech Info: Application#

PCT /  /

Bar Code #

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# NiceProt View of TrEMBL: P79786

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[\[Sequence\]](#) [\[Tools\]](#)

*Note: most headings are clickable, even if they don't appear as links. They link to the user manual or other documents.*

## General information about the entry

Entry name	<b>P79786</b>
Primary accession number	<b>P79786</b>
Secondary accession numbers	None
Entered in TrEMBL in	Release 03, May 1997
Sequence was last modified in	Release 03, May 1997
Annotations were last modified in	Release 24, June 2003

## Name and origin of the protein

Protein name	<b>Thrombospondin-1 [Fragment]</b>
Synonyms	None
Gene name	None
From	<a href="#">Gallus gallus (Chicken)</a> [TaxID: 9031]
Taxonomy	<a href="#">Eukaryota</a> ; <a href="#">Metazoa</a> ; <a href="#">Chordata</a> ; <a href="#">Craniata</a> ; <a href="#">Vertebrata</a> ; <a href="#">Euteleostomi</a> ; <a href="#">Archosauria</a> ; <a href="#">Aves</a> ; <a href="#">Neognathae</a> ; <a href="#">Galliformes</a> ; <a href="#">Phasianidae</a> ; <a href="#">Phasianinae</a> ; <a href="#">Gallus</a> .

## References

[1]	SEQUENCE FROM NUCLEIC ACID. MEDLINE=97209337; PubMed=9056637; [ <a href="#">NCBI</a> , <a href="#">ExPASy</a> , <a href="#">EBI</a> , <a href="#">Israel</a> , <a href="#">Japan</a> ] <a href="#">Tucker R.P.</a> , <a href="#">Hagios C.</a> , <a href="#">Chiquet-Ehrismann R.</a> , <a href="#">Lawler J.</a> ; "In situ localization of thrombospondin-1 and thrombospondin-3 transcripts in the avian embryo."; Dev. Dyn. 208:326-337(1997).
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## Comments

None

## Cross-references

EMBL	U76994; AAB19208.1; -. [ <a href="#">EMBL</a> / <a href="#">GenBank</a> / <a href="#">DDBJ</a> ] [ <a href="#">CoDingSequence</a> ]
GO	GO:0005509; Molecular function: calcium ion binding ( <i>inferred from electronic annotation</i> ). GO:0007155; Biological process: cell adhesion ( <i>inferred from electronic annotation</i> ).
InterPro	IPR003367; tsp_3. <a href="#">Graphical view of domain structure</a> .
Pfam	PF02412; tsp_3; 5.
HOVERGEN	[ <a href="#">Family</a> / <a href="#">Alignment</a> / <a href="#">Tree</a> ]
ProtoMap	P79786.
PRESAGE	P79786.
ModBase	P79786.
SWISS-2DPAGE	<a href="#">Get region on 2D PAGE</a> .

## Keywords

None

## Features



Feature table viewer

Key	From	To	Length	Description
NON_TER	1	1		
NON_TER	181	181		

## Sequence information

Length: <b>181 AA</b> [This is the length of the partial sequence]	Molecular weight: <b>20202 Da</b> [This is the MW of the partial sequence]	CRC64: <b>365E8B0E97BEAE11</b> [This is a checksum on the sequence]
<pre>       10           20           30           40           50           60                                                                 GNGIICEEDT DLDGWPENEL VCVANATYHC KKDNCNLPN SGQEDYDKDG IGDACDND       70           80           90          100          110          120                                                                 DDGIPDDRDN CPMIYNPQQY DYDRDDVGDR CDNCPYNHNP DEIDTDNNGE GDACAVDIDG       130          140          150          160          170          180                                                                 DGVLNERNWN QYVYNVDQRD TDLGVDGQC DNCPLHNPD QEDTDSLIG DECDNNQETD </pre>		
A		P79786 in <a href="#">FASTA format</a>

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[Compute pI/Mw](#), [PeptideMass](#), [PeptideCutter](#), [Dotlet](#)  
(Java)



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Ref	Items	Type	RT	Index-term
R1	341		4	*THROMBOSPONDIN 1
R2	341	X		DC=D12.776.395.550.895.800. (THROMBOSPONDIN 1)
R3	341	X		DC=D12.776.543.550.895.800. (THROMBOSPONDIN 1)
R4	4	X	1	TSP-1
R5	1087	B	4	THROMBOSPONDINS

?e r5

Ref	Items	Type	RT	Index-term
R1	1087		4	*THROMBOSPONDINS
R2	1069	X		DC=D12.776.395.550.895. (THROMBOSPONDINS)
R3	1069	X		DC=D12.776.543.550.895. (THROMBOSPONDINS)
R4	28427	B	81	MEMBRANE GLYCOPROTEINS
R5	341	N	4	THROMBOSPONDIN 1

?s thrombospo?

S5	2100	THROMBOSPO?
----	------	-------------

?s s5 (25n) heparin?

2100	S5
57107	HEPARIN?

S6 172 S5 (25N) HEPARIN?

?ds

Set	Items	Description
S1	42895	'GRANULES'
S2	855	S1 (3N) (ALPHA?)
S3	54	S2 AND HEPARIN?
S4	11	S3 AND COMPLEX?
S5	2100	THROMBOSPO?
S6	172	S5 (25N) HEPARIN?

?s s6 and s1

172	S6
42895	S1

S7 8 S6 AND S1

?t s7/9/all

File 155:MEDLINE(R) 1966-2003/Jun W2

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\*File 155: Medline has been reloaded and accession numbers have changed. Please see HELP NEWS 155.

Set Items Description

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Cost is in DialUnits

?ds

Set	Items	Description
S1	42895	'GRANULES'
S2	855	S1 (3N) (ALPHA?)
S3	54	S2 AND HEPARIN?
S4	11	S3 AND COMPLEX?

?e thrombospondin

Ref	Items	RT	Index-term
E1	3		THROMBOSPLASTIN
E2	1		THROMBOSPLATIN
E3	1		*THROMBOSPODIN
E4	1		THROMBOSPON
E5	1978		THROMBOSPONDIN
E6	0	1	THROMBOSPONDIN RECEPTORS
E7	341	4	THROMBOSPONDIN 1
E8	1		THROMBOSPONDIN 1 --ADMINISTRATION AND DOSAGE -
E9	22		THROMBOSPONDIN 1 --ANALYSIS --AN
E10	8		THROMBOSPONDIN 1 --ANTAGONISTS AND INHIBITORS
E11	47		THROMBOSPONDIN 1 --BIOSYNTHESIS --BI
E12	3		THROMBOSPONDIN 1 --BLOOD --BL

Enter P or PAGE for more

?p

Ref	Items	Index-term
E13	46	THROMBOSPONDIN 1 --CHEMISTRY --CH
E14	1	THROMBOSPONDIN 1 --DEFICIENCY --DF
E15	1	THROMBOSPONDIN 1 --DRUG EFFECTS --DE
E16	112	THROMBOSPONDIN 1 --GENETICS --GE
E17	11	THROMBOSPONDIN 1 --IMMUNOLOGY --IM
E18	3	THROMBOSPONDIN 1 --ISOLATION AND PURIFICATION
E19	138	THROMBOSPONDIN 1 --METABOLISM --ME
E20	2	THROMBOSPONDIN 1 --PHARMACOKINETICS --PK
E21	46	THROMBOSPONDIN 1 --PHARMACOLOGY --PD
E22	77	THROMBOSPONDIN 1 --PHYSIOLOGY --PH
E23	6	THROMBOSPONDIN 1 --SECRETION --SE
E24	6	THROMBOSPONDIN 1 --THERAPEUTIC USE --TU

Enter P or PAGE for more

?p

Ref	Items	RT	Index-term
E25	74		THROMBOSPONDIN 2
E26	12		THROMBOSPONDIN 3
E27	13		THROMBOSPONDIN 4
E28	67		THROMBOSPONDIN-RELATED ADHESIVE PROTEIN, PROTO
E29	2		THROMBOSPONDINE
E30	2		THROMBOSPONDINES
E31	1087	4	THROMBOSPONDINS
E32	15		THROMBOSPONDINS --ANALYSIS --AN
E33	9		THROMBOSPONDINS --ANTAGONISTS AND INHIBITORS -
E34	25		THROMBOSPONDINS --BIOSYNTHESIS --BI
E35	18		THROMBOSPONDINS --BLOOD --BL
E36	31		THROMBOSPONDINS --CHEMISTRY --CH

Enter P or PAGE for more

?e e7

L Number	Hits	Search Text	DB	Time stamp
1	0	("granules same heparin").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/12 12:30
2	0	("granules same TSP-1").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/12 12:31
3	4667	granules and heparin	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/12 12:31
4	238	granules same heparin	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/12 12:31
5	21	(granules same heparin) same P	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/12 12:31
6	27	(granules same heparin) same Pf4	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/12 12:32
7	9	((granules same heparin) same Pf4) same tsp-1	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/12 12:34
8	0	((granules same heparin) same Pf4) same thrombospodin	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/12 12:34
9	71	granules and tsp-1	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/12 12:35
10	13	(granules and tsp-1) and pf4	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/12 12:35
11	11	((granules and tsp-1) and pf4) and heparin	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/12 12:35

L Number	Hits	Search Text	DB	Time stamp
1	0	("granules same heparin").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/12 12:30
2	0	("granules same TSP-1").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/12 12:31
3	4667	granules and heparin	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/12 12:31
4	238	granules same heparin	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/12 12:31
5	21	(granules same heparin) same P	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/12 12:31
6	27	(granules same heparin) same Pf4	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/12 12:32
7	9	((granules same heparin) same Pf4) same tsp-1	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/12 12:34
8	0	((granules same heparin) same Pf4) same thrombospodin	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/12 12:34
9	71	granules and tsp-1	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/12 12:35
10	13	(granules and tsp-1) and pf4	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/12 12:35
11	11	((granules and tsp-1) and pf4) and heparin	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/12 12:43
12	247	Elisa and pf4	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/12 12:43
13	1	(Elisa and pf4) and tsp1	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/12 12:48
14	1	((Elisa and pf4) and tsp1) and heparin	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/06/12 12:48

File 155: MEDLINE(R) 1966-2003/Jun W2

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Set Items Description

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?ds

Set	Items	Description
S1	42895	'GRANULES'
S2	855	S1 (3N) (ALPHA?)
S3	54	S2 AND HEPARIN?
S4	11	S3 AND COMPLEX?
S5	2100	THROMBOSPO?
S6	172	S5 (25N) HEPARIN?
S7	8	S6 AND S1

?add medicine

12jun03 14:11:39 User228206 Session D1988.4

\$0.52 0.162 DialUnits File155

\$0.52 Estimated cost File155

\$0.52 Estimated cost this search

\$0.52 Estimated total session cost 0.162 DialUnits

SYSTEM:OS - DIALOG OneSearch

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149, 156, 159, 162, 164, 172, 266, 369, 370, 399, 434, 442,  
444, 467

Previous sets have been retained; enter DISPLAY SETS to view them.

?e platlet

Ref	Items	Index-term
E1	5	PLATLELET
E2	1	PLATLELET-DERIVED
E3	302	*PLATLET
E4	1	PLATLET AGGREGATION
E5	1	PLATLET DERIVED GROWTH FACTOR
E6	1	PLATLET GLYCOPROTEIN IIIA
E7	1	PLATLET IIB/IIIA RECEPTOR ANTAGONISTS
E8	1	PLATLET-ACTIVATING
E9	1	PLATLET-DERIVED
E10	1	PLATLET-POOR
E11	1	PLATLET, HUMAN, 4'-AMINOMETHYL-4,5',8-TRIMETHYLP
E12	1	PLATLETCRIT

Enter P or PAGE for more

?s platle?

S8 485 PLATLE?

?e platele? (2n) factor?

Ref	Items	Index-term
E1	1	PLATELE AGGREGATES
E2	1	PLATELE FUNCTION ANALYZER 100
E3	0	*PLATELE? (2N) FACTOR?
E4	4	PLATELEA
E5	1	PLATELEAT
E6	3	PLATELEC
E7	7	PLATELECT
E8	1	PLATELECTS
E9	58	PLATELED
E10	1	PLATELED DERIVED GROWTH FACTOR RECEPTOR BETA



E11 1 PLATELED-ACTIVATING FACTOR RECEPTOR-ANTAGONIST  
E12 1 PLATELED-DERIVED

Enter P or PAGE for more

?s platlet? (2n) factor?

Processing

Processed 10 of 27 files ...

Processing

Processed 20 of 27 files ...

Completed processing all files

476 PLATLET?

8897419 FACTOR?

S9 54 PLATLET? (2N) FACTOR?

?s heparin?

S10 323925 HEPARIN?

?s thrombosp?

S11 15938 THROMBOSP?

?s alpha (2n) granul?

Processed 10 of 27 files ...

Processing

Completed processing all files

3517561 ALPHA

1240409 GRANUL?

S12 13385 ALPHA (2N) GRANUL?

?ds

Set	Items	Description
S1	42895	'GRANULES'
S2	855	S1 (3N) (ALPHA?)
S3	54	S2 AND HEPARIN?
S4	11	S3 AND COMPLEX?
S5	2100	THROMBOSPO?
S6	172	S5 (25N) HEPARIN?
S7	8	S6 AND S1
S8	485	PLATLE?
S9	54	PLATLET? (2N) FACTOR?
S10	323925	HEPARIN?
S11	15938	THROMBOSP?
S12	13385	ALPHA (2N) GRANUL?

?s (platelet? (2n) factor? ) or pf4

Processing

Processed 10 of 27 files ...

Completed processing all files

769988 PLATELET?

8897419 FACTOR?

187192 PLATELET? (2N) FACTOR?

4796 PF4

S13 188113 (PLATELET? (2N) FACTOR? ) OR PF4

?ds

Set	Items	Description
S1	42895	'GRANULES'
S2	855	S1 (3N) (ALPHA?)
S3	54	S2 AND HEPARIN?
S4	11	S3 AND COMPLEX?
S5	2100	THROMBOSPO?
S6	172	S5 (25N) HEPARIN?
S7	8	S6 AND S1
S8	485	PLATLE?
S9	54	PLATLET? (2N) FACTOR?
S10	323925	HEPARIN?
S11	15938	THROMBOSP?
S12	13385	ALPHA (2N) GRANUL?
S13	188113	(PLATELET? (2N) FACTOR? ) OR PF4

?s granule?

S14 326628 GRANULE?

?s platelet?

S15 769988 PLATELET?

?s s14 or s15

326628 S14  
 769988 S15  
 S16 1078781 S14 OR S15  
 ?s s16 and s10  
 1078781 S16  
 323925 S10  
 S17 42014 S16 AND S10  
 ?s s16 (4n) s10  
 1078781 S16  
 323925 S10  
 S18 12693 S16 (4N) S10  
 ?ds

Set	Items	Description
S1	42895	'GRANULES'
S2	855	S1 (3N) (ALPHA?)
S3	54	S2 AND HEPARIN?
S4	11	S3 AND COMPLEX?
S5	2100	THROMBOSPO?
S6	172	S5 (25N) HEPARIN?
S7	8	S6 AND S1
S8	485	PLATLE?
S9	54	PLATLET? (2N) FACTOR?
S10	323925	HEPARIN?
S11	15938	THROMBOSP?
S12	13385	ALPHA (2N) GRANUL?
S13	188113	(PLATELET? (2N) FACTOR? ) OR PF4
S14	326628	GRANULE?
S15	769988	PLATELET?
S16	1078781	S14 OR S15
S17	42014	S16 AND S10
S18	12693	S16 (4N) S10

?s s16 or s8  
 1078781 S16  
 485 S8  
 S19 1078867 S16 OR S8  
 ?s s19 and s11 and s13  
 1078867 S19  
 15938 S11  
 188113 S13  
 S20 1076 S19 AND S11 AND S13  
 ?ds

Set	Items	Description
S1	42895	'GRANULES'
S2	855	S1 (3N) (ALPHA?)
S3	54	S2 AND HEPARIN?
S4	11	S3 AND COMPLEX?
S5	2100	THROMBOSPO?
S6	172	S5 (25N) HEPARIN?
S7	8	S6 AND S1
S8	485	PLATLE?
S9	54	PLATLET? (2N) FACTOR?
S10	323925	HEPARIN?
S11	15938	THROMBOSP?
S12	13385	ALPHA (2N) GRANUL?
S13	188113	(PLATELET? (2N) FACTOR? ) OR PF4
S14	326628	GRANULE?
S15	769988	PLATELET?
S16	1078781	S14 OR S15
S17	42014	S16 AND S10
S18	12693	S16 (4N) S10
S19	1078867	S16 OR S8
S20	1076	S19 AND S11 AND S13

?s s10 and (s15 or s14 or s8 or s12) and s11 and s13  
 323925 S10  
 769988 S15  
 326628 S14  
 485 S8